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(74) Agent: **PARK, Wonyong**; 5 Floor, Shinwon Bldg.,  
823-14, Yeoksam 1-dong, Gangnam-gu, Seoul 135-933  
(KR).

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(71) Applicant (for all designated States except US): **MOBI-  
ENCE, INC.** [KR/KR]; #924 Sigmapark, 276-1, Seohyun-  
dong, Bundang-gu, Seongnam City, Kyeonggi Province  
463-824 (KR).

(72) Inventors; and

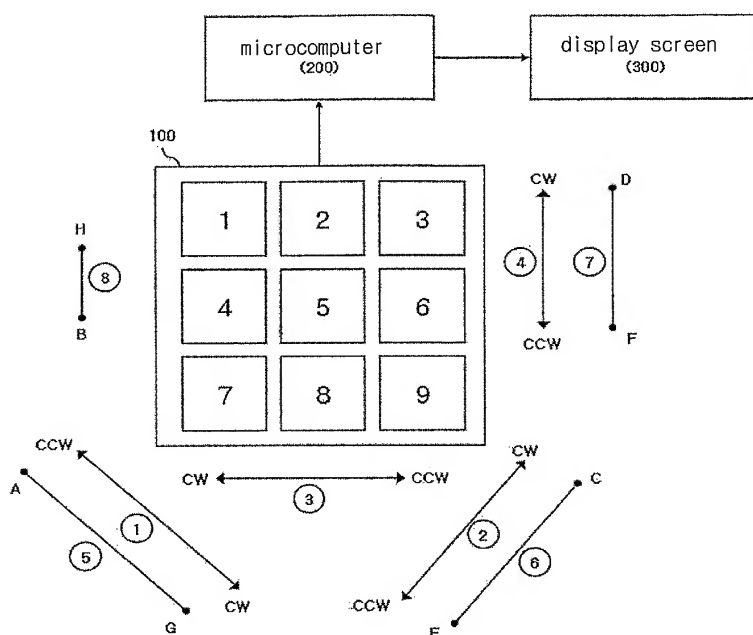
(75) Inventors/Applicants (for US only): **AHN, Jaewoo**  
[KR/KR] (KR). **LEE, Seungeun** [KR/KR] (KR).

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(54) Title: **BUTTON-TYPE DEVICE FOR THREE DIMENSIONAL ROTATION AND TRANSLATION CONTROL**



(57) Abstract: Disclosed herein is a device for rotating or translating a three-dimensional object using a 3x3 button array, in which an application program runs to rotate and to translate a predetermined three-dimensional object on a display screen. The device comprises a button-part including 9 buttons of a 3x3 array and having combinations of buttons on horizontal, vertical, and diagonal lines, corresponding to the direction of rotation or translation of a three-dimensional object on the three-dimensional axis of rotation or along the axis of translation; and a microcomputer for recognizing the depression combination of buttons, the order of the button depressed, and the key-depressing time and outputting a control signal so as to rotate or to translate a portion of or whole configuration of the three-dimensional object on the display screen. Without using a pointing method through an additional device like a mouse, the direction of rotation, the angle of rotation, and the direction of translation can be assigned, furthermore partial / whole rotation on the more than three axes and translation are easily controlled,

so that a program controlling the rotation and the translation of a three-dimensional object can be applied to any device which has a 3x3 button array, thereby enhancing the applicability.



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